I/O BOARDS

Mic / Line Input (MLI)
Provides 8 analog input channels of mic or line level audio. E Snake Control provides remote gain control, meters as well as buttons for selecting mic/line, phantom power, pad and limiter for each channel.

Transformer Mic Input (TRMI)
Provides 8 analog input channels of mic level audio. Features premium Lundahl transformers. Transformer isolation increases the noise rejection characteristics of the TRMI and lowers THD. E Snake Control functions are similar to those found on the MLI.

Mic / Line Output (MLO)
Provides 8 analog audio output channels. When used in combination with an MLI or TRMI input board, the analog output level automatically adjusts to the input. This compensating "Gain Tracking" feature of the MLO eliminates the need to readjust preamps on analog consoles when gain adjustments are made to the input boards. Also available in line output only version (LO).

AES/EBU Input (AESI)
Provides four AES/EBU digital input channels, each containing two audio channels for a total of eight channels. E Snake Control features meters and a Sample Rate Conversion on/off switch while also providing error indication and monitoring of clock sync and data type.

AES/EBU Output (AESO)
Provides four AES/EBU digital output channels, each containing two audio channels for a total of eight channels.

Go ahead and "Mix and match" any input and output card.
You can input analog mic level and send to AES/EBU outputs at the other end or input AES/EBU and output analog line level audio.

Optional Termination Adapter Kit (ES2J)
The ES2J features 16 holes for mounting Neutrik "D" style male and female XLRs, which can be wired to mate with the ES2's I/O cards. This provides a convenient way to convert the Phoenix type terminals to traditional connector types. Other custom configurations are also available.

E Snake Control (ESC)
This single Windows PC application allows for configuring your E Snake network and controlling the input parameters of all E Snake products from any point on the CobraNet network. E Snake Control provides remote control of input gain, phantom power, pad, etc. Other features include fail-safe backups and preset files for quick setup.

ESC Overview Window
This view provides thumbnail views of up to 64 inputs at a time. Includes, meters, limiter lights and faders for adjusting input gain.

ESC Channel Detail View
In this view, a group of channels can be brought to the front for detailed monitoring and adjustment.

Functions vary depending on the type of cards installed. For more details and to download a free working version of the ESC software, visit www.whirlwindusa.com.

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FROM THE PEOPLE THAT BROUGHT YOU THE AWARD WINNING E SNAKE

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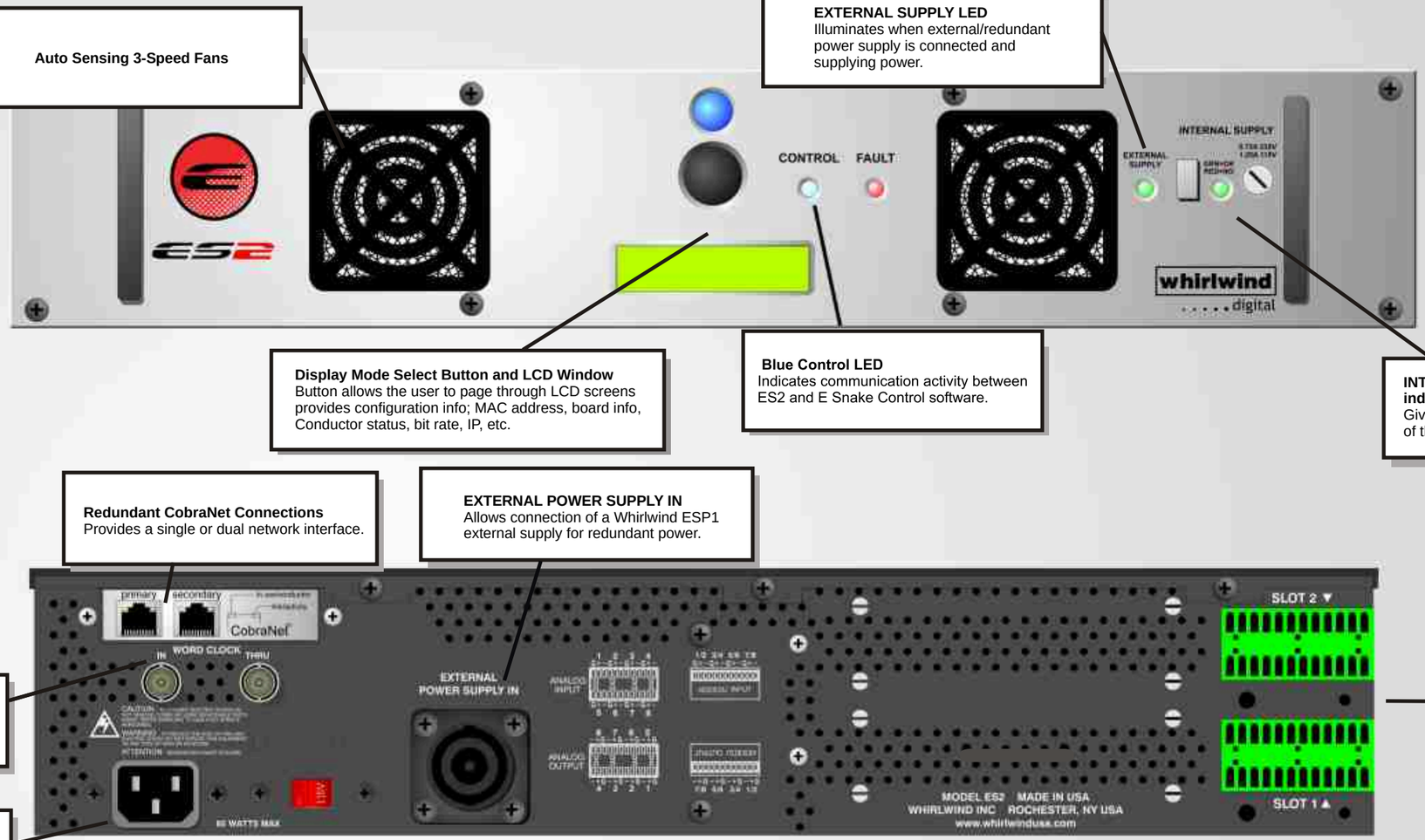
ES2

SETTING THE STANDARD. . .AGAIN



Whirlwind's E Snake 2 represents the next generation in the evolution of CobraNet digital snakes and multi-channel audio distribution.

- **Superb Audio Quality**
  E Snake and E Snake 2 were designed to the highest professional standards. Its mic preamps and A/D, D/A converters were chosen from the best components available. E Snake features wide and flat frequency response, low THD and residual noise that exceeds the noise floor of our measuring device (<118dB).

- **Modularity**
  E Snake 2 uses the same motherboard principle and the same I/O cards developed for the original E Snake. E Snake 2 can accept any two of these cards: input, output or any combination of the two. You can mix and match Mic/Line, Line or AES/EBU configurations with each card processing 8 channels. This makes E Snake 2 a versatile and high quality solution as an I/O access point to any CobraNet network or as an expansion to an existing E Snake digital snake system.

- **Lower Latency**
  E Snake 2 incorporates the latest CobraNet technology which allows fixed latencies of 1.33ms, 2.66ms or 5.33ms. This feature along with 20 or 24 bit sampling rates make E Snake 2 compatible with any other CobraNet device.

- **E Snake Control Software**
  E Snake 2 is now incorporated into the existing E Snake Control software. This single Windows PC application allows for controlling the input parameters of all E Snake products from any point on the CobraNet network. E Snake Control provides remote control of input gain, phantom power, pad, etc. (Functions vary depending on the type of cards installed.)

- **Gain Tracking**
  When two or more E Snake units are connected, E Snake Control "tracks" any changes made to the inputs and adjusts the outputs accordingly. This makes E Snake or E Snake 2 a "virtual wire" - as input gain is adjusted, the analog level of the output card is adjusted by the same amount *but in the opposite direction*. Once you have set your analog console's gain structure, adjustments to the E Snake's gain stage do not affect the input level at the board.

- **Standardized Protocol**
  CobraNet is rapidly becoming accepted as a standard for transporting multi-channel, real-time audio. Over 40 manufacturers now subscribe to the CobraNet standard and digital consoles are now providing direct input via CobraNet I/O modules. This makes E Snake an ideal companion to digital mixers such as Yamaha's PM5D.